No. 200000072

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Vegetable Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Siskiyou'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifteenth day of June, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED – OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*

Seminis Vegetable Seeds, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

PSR 5179

3. VARIETY NAME

'SISKIYOU'

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

RAD 6/27/01
~~37437 State Hwy 16 Woodland CA 95695~~
2700 Camino del Sol
Oxnard, CA
93030-7967

5. TELEPHONE *(include area code)*

(530) 666-0931

6. FAX *(include area code)*

(530) 666-6791

FOR OFFICIAL USE ONLY

PVPO NUMBER

~~200000072~~

FILING DATE

Dec. 6, 1999

7. GENUS AND SPECIES NAME

Lactuca Sativa L.

8. FAMILY NAME *(Botanical)*

Asteraceae

9. CROP KIND NAME *(Common name)*

Lettuce

FEES RECEIVED

FILING AND EXAMINATION FEE:
$ 2450.00
DATE
Dec 6, 1999

CERTIFICATION FEE:
$ 432.00
DATE
5-16-2005

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

California

12. DATE OF INCORPORATION

1962

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Thomas Kramer
Seminis Vegetable Seeds
Nude 54D
6702 DN Wageningen
The Netherlands

14. TELEPHONE *(include area code)*

0113131745 0218

15. FAX *(include area code)*

0113131745 0217

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☐ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☐ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*

☐ YES *(If "yes," answer items 18 and 19 below)* ☒ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ YES ☒ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☐ YES *(If "yes," give names of countries and dates)* ☒ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
NAME *(Please print or type)* T. Kramer		NAME *(Please print or type)*	
CAPACITY OR TITLE Director	DATE 12-3-99	CAPACITY OR TITLE	DATE

200000072

Exhibit 16A. Origin and Breeding History of Lettuce Siskiyou (PSR 5179)

Pedigree of c.v. Siskiyou

Female *Male*

(Valmaine X Floricos 83) F_7 X (Floricos 83 X Tall Guzmaine) F_4 1992

↓

F_1 1992

↓

F_2 1993 8 singe plant selections

↓

F_3 1994 24 single plant selections

↓

F_4 1995 15 single plant selections

↓

F_5 1996 26 single plant selections

↓

F_6 1997 46 single plant selections

↓

F_7 1998 55 single plant selection

↓

PSR 5179 F_8 1999 commercial trials and seed inc.

C.v. Siskiyou (PSR 5179) originated in 1992 with the cross between an F_7 selection of Valmaine X Floricos 83 and an F_4 selection of Floricos 83 X Tall Guzmaine. Single plant selections were made in subsequent years in the areas of intended commercialization. By F_6 a group of 12 families was judged uniform and bulked for trialing and seed increase. An F_7 mass was trialed extensively during 1998 and an increase of F_8 seed was produced in the San Joaquin Valley of California this year.

The initial breeding work (up to F_7) was carried out at the Petoseed Research Station in Felda, Florida, by Dr. Dale Kammerlohr. Further breeding and trials have been carried out by Dr. William Waycott at the Petoseed Company's Research Station at Arroyo Grande, California. Petoseed Company was purchased by Seminis Vegetable Seeds, Inc. in 1995 and this work continued by the same staff at the Arroyo Grande location until the present. Field trials were conducted in production areas throughout California and Arizona during 1998 with more trials planned for 1999.

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criteria for c.v. Siskiyou were:

1. a cultivar with increased uniformity, and improved heading ability, when compared to the most similar varieties,
2. resistance to corky root rot,
3. resistance to lettuce mosaic virus, and
4. increased tolerance to growth during high temperatures.

In trials of c.v Siskiyou during **the last six years covering generations F_7 to F_{13}**, we have seen neither genetic variants nor off-types in more than 9,000 plants, **indicating that this variety is genetically uniform and stable.**

Exhibit 16B. Novelty Statement of Lettuce Siskiyou (PSR 5179)

C.v. Siskiyou is described as a vigorous romaine lettuce cultivar adapted to the California and Arizona lettuce growing areas. C.v. Siskiyou has an optimum sowing period of June through August in the production areas of Coastal California, throughout the month of August in the San Joaquin Valley of California, and from September to early October in Southern California and Western Arizona. C.v. Siskiyou is susceptible to all California pathotypes of downy mildew, however contains the mo gene conferring resistance to lettuce mosaic virus, and the cor gene conferring resistance to corky root rot, strain CA1. C.v. Siskiyou was selected for improved uniformity and performance compared to the currently commercial cultivars grown during the same production periods, as well as the disease resistances listed above.

Phenotypically, c.v. Siskiyou is distinct from its most similar commercial cultivars cv. Clemente **(Table 1)**. C.v. Siskiyou is shorter in stature, with leaves that are less likely to close or cup at maturity, and lighter in color than cv. Clemente **(RHC color chart 146C vs. 146B)**. C.v. Siskiyou is also more adapted to growing during high temperatures and is more uniform in head formation and appearance. In replicated field trials, c.v. Siskiyou exhibited more plants with uniformly medium-sized heads, while cv. Clemente exhibited less uniformity of heading with several plants having mis-shapened heads **(27.2cm vs. 23.8cm)**. The overall color of c.v. Siskiyou was lighter than cv. Clemente with similar, moderate leaf blistering.

The data presented here are statistically different at the 95% confidence level, exhibiting a range of means for plant height from 25.87 to 26.18 for cv. Siskiyou and from 28.21 to 28.74 for cv. Clemente, of means for head diameter from 26.72 to 27.68 for cv. Siskiyou and from 23.27 to 24.39 for cv. Clemente, and of means for head weight from 715.27 to 719.73 for cv. Siskiyou and from 810.14 to 814.86 for cv. Clemente, using the 0.95 probability of generating confidence intervals (CI) that contains the means.

Table 1. Evaluation of Klamath (PSR 3726) and Siskiyou (PSR 5179), and the most similar cultivar, Clemente, for several important characters.

Trial No	Cultivar	Rep No.	Color[a]	Downy Mildew Resist.[b]	Corky Root Rot Resist.[c]	Lettuce Mosaic Resist.[d]	Plant Height[e]	Head Diameter[f]	Head Weight[g]	No. of Days to 15 cm[h]
Trial 1: Evaluated 16 Jun 99 Salinas Valley	**Klamath:**	Rep. 1	146A	Suscept.	Resist.	Resist.	32.6±0.9	28.2±2.1	834±9.9	66
		Rep. 2	146A	Suscept.	Resist.	Resist.	31.6±0.8	27.1±2.1	839±9.6	66
		Average:	146A	Suscept.	Resist.	Resist.	32.1±0.9	27.7±2.1	837±9.8	66
	Siskiyou:	Rep. 1	146C	Suscept.	Resist.	Resist.	27.5±0.8	27.2±2.0	718±10.3	74
		Rep. 2	146C	Suscept.	Resist..	Resist.	24.8±0.7	26.8±2.3	708±9.7	75
		Average:	146C	Suscept.	Resist.	Resist.	25.3±0.8	27.0±2.2	713±10.0	75
	Clemente:	Rep. 1	146B	Suscept.	Resist.	Resist.	28.6±1.1	24.2±2.3	815±10.9	68
		Rep. 2	146B	Suscept.	Resist.	Resist.	28.9±1.3	23.7±2.9	811±10.4	69
		Average:	146B	Suscept.	Resist.	Resist.	28.8±1.2	24.0±2.6	813±10.7	69
Trial 2: Evaluated: 16 Jul 99 Salinas Valley	**Klamath:**	Rep. 1	146A	Suscept.	Resist.	Resist.	31.2±0.7	27.5±2.2	824±9.5	67
		Rep. 2	146A	Suscept.	Resist.	Resist.	32.3±0.9	26.6±1.9	829±9.6	65
		Average:	146A	Suscept.	Resist.	Resist.	31.8±0.8	27.1±2.1	827±9.6	66
	Siskiyou:	Rep. 1	146A	Suscept.	Resist.	Resist.	26.2±0.5	28.0±2.2	726±9.9	75
		Rep. 2	146A	Suscept.	Resist..	Resist.	25.6±0.8	26.8±2.1	718±9.9	75
		Average:	146A	Suscept.	Resist.	Resist.	25.9±0.7	27.4±.2.2	722±9.9	75
	Clemente:	Rep. 1	146B	Suscept.	Resist.	Resist.	27.6±1.4	23.2±2.7	798±10.7	68
		Rep. 2	146B	Suscept.	Resist.	Resist.	28.8±1.0	24.2±2.1	826±10.1	70
		Average:	146B	Suscept.	Resist.	Resist.	27.9±1.2	23.7±2.4	812±10.4	69

Range of variation among means of statistically significant differences at the 95% level using the confidence interval [CI = mean ± (SDXSE)]:

cv. Klamath (PSR 3726)	**31.74 to 32.11**	**26.89 to 27.81**	**829.34 to 833.66**
cv. Siskiyou (PSR 5179)	**25.87 to 26.18**	**26.72 to 27.68**	**715.27 to 719.73**
cv. Clemente	**28.21 to 28.74**	**23.27 to 24.39**	**810.14 to 814.86**

[a] Color evaluation was done using the Royal Horticultural Society color chart, U.K.
[b] Downy mildew survey reported as resistance to California Pathotypes I through V, using two replications each having 15 seedlings, grown in laboratory screens.
[c] Corky root rot survey of using five replications, each having 25 roots from plants grown in field trials in Monterey and Santa Maria Counties, CA, evaluated between June and August, 1997 and 1998.
[d] Lettuce mosaic virus survey using two replications each having 40 seedlings, grown in laboratory screens.
[e] Mean plant height using two sowing dates of 20 plants per replication in cm ± standard deviation.
[f] Mean head diameter using two sowing dates of 20 plants per replication in cm ± standard deviation.
[g] Mean head weight using two sowing dates of 20 plants per replication in grams ± standard deviation.
[h] Mean number of days until stem reaches 15 cm using two replications of 20 plants each.

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[f] Mean head diameter using two sowing dates of 20 plants per replication in cm ± standard deviation.
[g] Mean head weight using two sowing dates of 20 plants per replication in grams ± standard deviation.
[h] Mean number of days until stem reaches 15 cm using two replications of 20 plants each.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION

EXHIBIT

OBJECTIVE DESCRIPTION OF VARIETY
LETTUCE *Lactuca sativa*

NAME OF APPLICANT (S)
Seminis Vegetable Seeds, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)
37437 State Hwy 16
Woodland CA 95695

FOR OFFICIAL USE ONLY
PVPO NUMBER 200000072
VARIETY NAME PSR5179
EXPERIMENTAL DESIGNATION

Place numbers in the boxes for the characters which best describe this variety. Measured data should be the mean of an appropriate number (at least 10) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is:

Color System Used:

1. PLANT TYPE: *(See list of suggested check varieties page 4.)*

[0 4]

01=Cutting/Leaf
02=Butterhead
03=Bibb
04=Cos or Romaine
05=Great Lakes Group
06=Vanguard Group
07=Imperial Group
08=Eastern (Ithaca) Group
09=Stem
10=Latin
11=OTHER

2. SEED:

COLOR: [2] 1=White (Silver Gray) 2=Black (Gray Brown) 3=Brown (Amber)

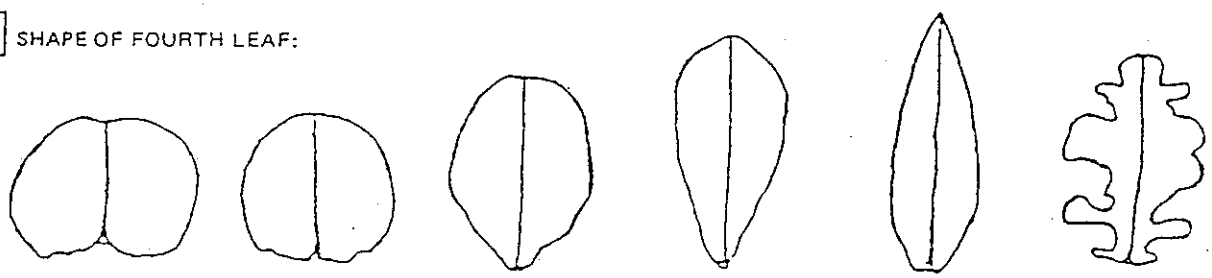
LIGHT DORMANCY: [2] 1=Light Required 2=Light Not Required

HEAT DORMANCY: [1] 1=Susceptible 2=Not Susceptible

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

[2] SHAPE OF COTYLEDONS: 1=Broad 2=Intermediate 3=Spatulate

[4] SHAPE OF FOURTH LEAF:



1 2 3 4 5 6

[2 1] LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

[2] APICAL MARGIN:
[5] BASAL MARGIN:
1=Entire 2=Crenate/Gnawed 3=Finely Dentate 4=Moderately Dentate 5=Coarsely Dentate 6=Incised 7=Lobed 8=OTHER *(specify)*

[1] UNDULATION: 1=Flat 2=Slight 3=Medium 4=Marked

[4] GREEN COLOR: 1=Yellow Green 2=Light Green 3=Medium Green 4=Dark Green 5=Blue Green 6=Silver Green 7=Gray Green

ANTHOCYANIN:

[1] DISTRIBUTION: 1=Absent 2=Margin Only 3=Spotted 4=Throughout 5=OTHER *(specify)*

[—] CONCENTRATION: 1=Light 2=Moderate 3=Intense

[1] ROLLING: 1=Absent 2=Present

[1] CUPPING: 1=Uncupped 2=Slight 3=Markedly

[1] REFLEXING: 1=None 2=Apical Margin 3=Lateral Margins

4. MATURE LEAVES *(observe harvest-mature outer leaves)*:

NOTE: Provide color photo of harvest-mature leaves which accurately shows color and margin characteristics.

MARGIN:

1	INCISION DEPTH: *(deepest penetration of the margin)*	1=Absent/Shallow (Dark Green Boston)	2=Moderate (Vanguard)	3=Deep (Great Lakes 659)
2	INDENTATION: *(finest divisions of the margin)*	1=Entire (Dark Green Boston) 2=Shallowly Dentate (Great Lakes 65)	3=Deeply Dentate (Great Lakes 659) 4=Crenate (Vanguard)	5=OTHER *(specify)*
1	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston)	2=Moderate (Vanguard)	3=Strong (Great Lakes 659)
2	GREEN COLOR:	1=Very Light Green (Bibb) 2=Light Green (Minetto)	3=Medium Green (Great Lakes) 4=Dark Green (Vanguard)	5=Very Dark Green 6=OTHER

ANTHOCYANIN *(grown at or below 10 C)*:

1	DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston)	3=Spotted (Calif. Cream Butter) 4=Throughout (Prize Head)	5=OTHER *(specify)*
-	CONCENTRATION:	1=Light (Iceberg)	2=Moderate (Prize Head)	3=Intense (Ruby)
3	SIZE:	1=Small	2=Medium	3=Large
2	GLOSSINESS:	1=Dull (Vanguard)	2=Moderate (Salinas)	3=Glossy (Great Lakes)
2	BLISTERING:	1=Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
3	LEAF THICKNESS:	1=Thin	2=Intermediate	3=Thick
2	TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	

5. PLANT *(at market stage. Choose a comparison variety appropriate for this type.)*:

41 SPREAD OF FRAME LEAVES: cm This Variety 40 cm CLEMENTE *(specify comparison variety)*

27 HEAD DIAMETER *(market trimmed with single cap leaf)*: cm This Variety 24 cm CLEMENTE *(specify comparison variety)*

4	HEAD SHAPE:	1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
3	HEAD SIZE CLASS:	1=Small	2=Medium	3=Large

24 HEAD COUNT PER CARTON

718 HEAD WEIGHT: g This Variety 813 g CLEMENTE *(specify comparison variety)*

2	HEAD FIRMNESS:	1=Loose 2=Moderate	3=Firm 4=Very Firm

6. BUTT *(bottom of market-trimmed head)*:

3	SHAPE:	1=Slightly Concave	2=Flat	3=Rounded
2	MIDRIB:	1=Flattened (Salinas)	2=Moderately Raised	3=Prominently Raised (Great Lakes 659)

7. CORE *(stem of market-trimmed head)*:

32 mm Diameter at base of head

.84 Ratio of head diameter/core diameter

70 Core height from base of head to apex: mm This Variety 83 mm CLEMENTE *(specify comparison variety)*

8. BOLTING *(Give First Water Date 19 MAY 98)*: NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

65 Number of days from First Water Date to seed stalk emergence *(summer conditions)*: This Variety 61 CLEMENTE *(specify comparison variety)*

3	BOLTING CLASS:	1=Very Slow 2=Slow	3=Medium 4=Rapid	5=Very Rapid

91 Height of mature seed stalk: cm This Variety 85 cm CLEMENTE *(specify comparison variety)*

BOLTING cont'd. on next page

7

200000727

Spread of Bolter Plant *(at widest point)*:

[3][7] cm This Variety [4][8] cm CLEMENTE *(specify comparison variety)*

[1] BOLTER LEAVES: 1=Straight 2=Curved

[1] MARGIN: 1=Entire 2=Dentate

[3] COLOR: 1=Light Green 2=Medium Green 3=Dark Green

BOLTER HABIT:

[2] TERMINAL INFLORESCENCE: 1=Absent 2=Present

[2] LATERAL SHOOTS: *(above head)* 1=Absent 2=Present

[1] BASAL SIDE SHOOTS: 1=Absent 2=Present

9. MATURITY *(earliness of harvest-mature head formation)*:

NOTE: Complete this section for at least one season.

SEASON	Applic. 1/ #of days	Check 1/ #of days	CHECK VARIETY 2/
Spring	107	105	CLEMENTE
Summer	63	62	CLEMENTE
Fall	75	73	CLEMENTE
Winter			

Give planting date(s) and location(s):

Spring CENTRAL CALIFORNIA COAST 15 JANUARY TO 15 AUGUST

Summer

Fall

Winter

1/ First water date to harvest. 2/ Fill in check variety name on the appropriate line.

10. ADAPTATION:

PRIMARY REGIONS OF ADAPTION *(tested and proven adapted)*: (0=Not tested 1=Not Adapted 2=Adapted)

[0] Southwest *(Calif., Ariz. desert)* [2] West Coast [0] Northeast

[0] Northcentral [0] Southeast [ ] OTHER

SEASON:

[2] Spring (area CENTRAL CALIF. COAST) [2] Fall (area CENTRAL CALIF. COAST)

[2] Summer (area CENTRAL CALIF. COAST) [0] Winter (area)

[0] GREENHOUSE: 0=Not tested 1=Not Adapted 2=Adapted

[1] SOIL TYPE: 1=Mineral 2=Organic 3=Both

11. DISEASES AND STRESS REACTIONS (0=Not tested; 1=Susceptible; 2=Intermediate; 3=Resistant; 4=Highly resistant; 5=Tolerant):

VIRUS

- [1] Big Vein
- [3] Lettuce Mosaic
- [0] Cucumber Mosaic
- [0] Broad Bean Wilt
- [0] Turnip Mosaic
- [0] Beet Western Yellows
- [0] Lett. Infectious Yellows
- [ ] Other Virus _____

FUNGAL/BACTERIAL

- [0] Corky Root Rot (Pythium Root Rot)
- [ ] Downy Mildew (Races _____)
- [0] Powdery Mildew
- [0] Sclerotinia Rot
- [0] Bacterial Soft Rot (Pseudomonas spp. & others)
- [0] Botrytis (Gray Mold)
- [3] OTHER Rhizomonas suberifaciens (Corky Root Rot)

INSECTS

- [0] Cabbage Loopers
- [0] Root Aphids
- [0] Green Peach Aphid
- [ ] Other Insect _____

PHYSIOLOGICAL/STRESS

- [4] Tipburn
- [2] Heat
- [0] Drought
- [2] Cold
- [0] Salt
- [0] Brown Rib (Rib Discoloration, Rib Blight)
- [3] OTHER CAI, III

POST HARVEST

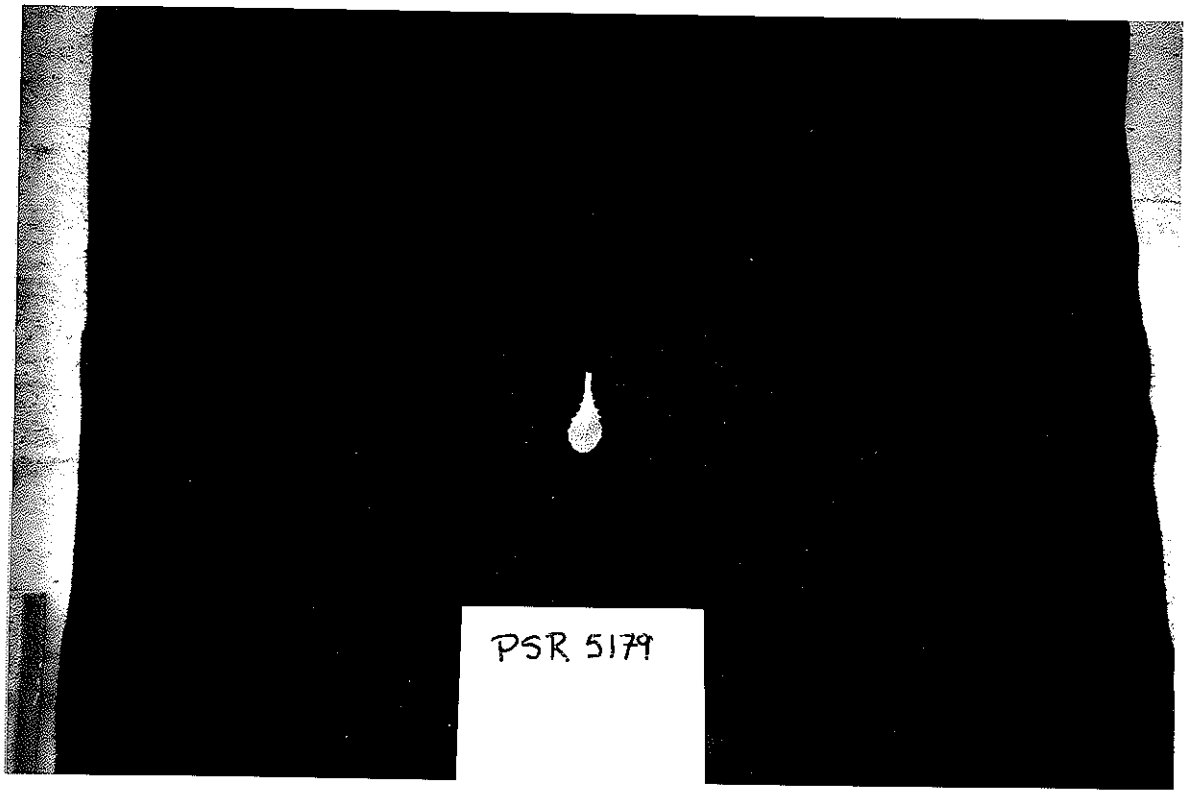
- [0] Pink Rib
- [0] Russet Spotting
- [0] Rusty Brown Discoloration
- [0] Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)
- [0] Brown Stain

12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

13. COMMENTS:

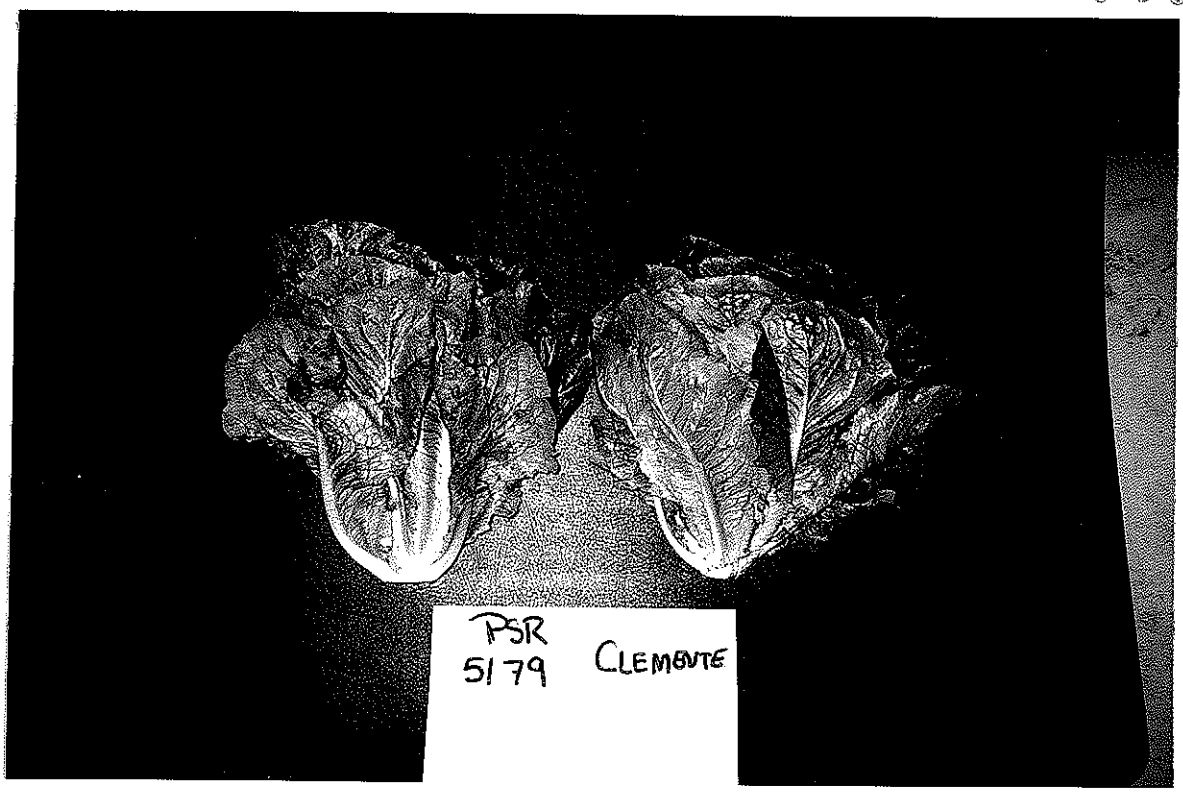
SUGGESTED CHECK VARIETIES

TYPE	CHECK VARIETY
1) CUTTING/LEAF	SALAD BOWL
2) BUTTERHEAD	DARK GREEN BOSTON
3) BIBB	BIBB
4) COS, OR ROMAINE	PARRIS ISLAND
5) GREAT LAKES GROUP	GREAT LAKES 659-700
6) VANGUARD GROUP	VANGUARD
7) IMPERIAL GROUP	VIVA
8) EASTERN GROUP	ITHACA
9) STEM	CELTUCE
10) LATIN	MATCHLESS

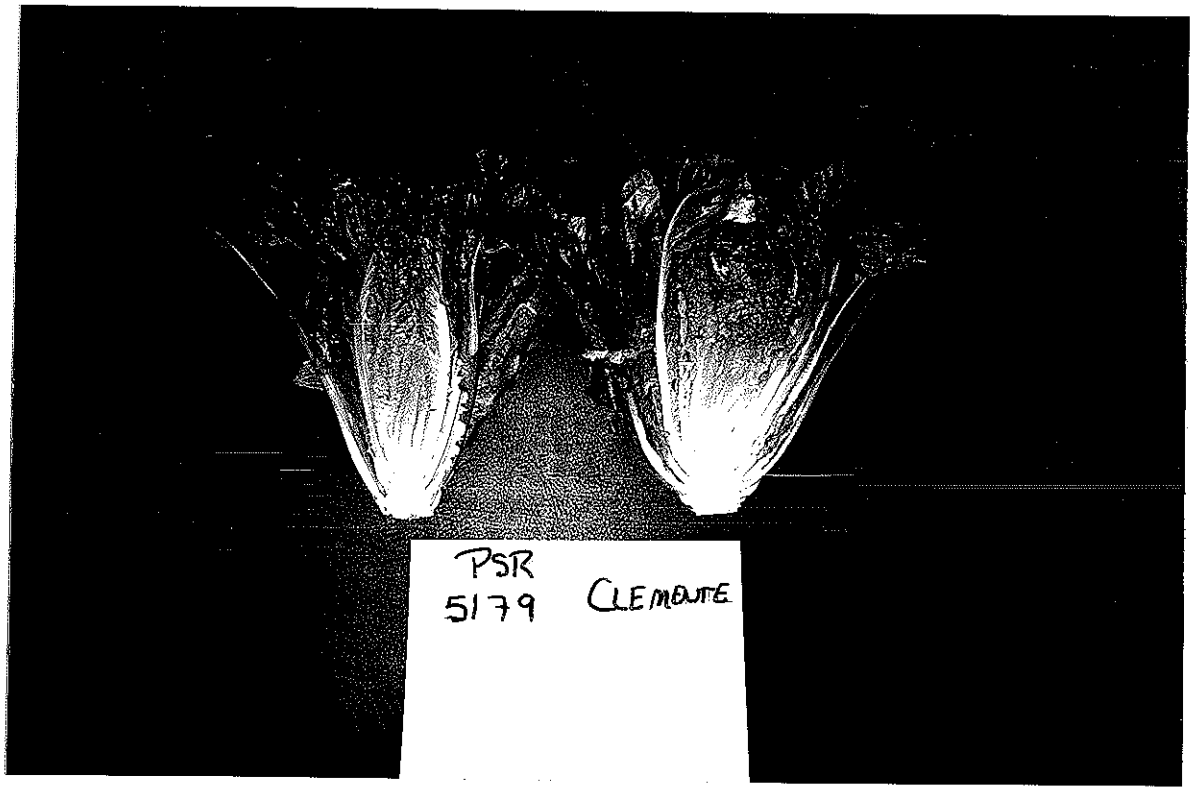


Fourth Leaf from 20-Day old Seedlings, PSR 5179

Harvest-Mature Leaf, PSR 5179(L), Clemente (R)



Harvest-Mature Plants, PSR 5179 (L), Clemente (R)



Harvest-Mature Plants, Cross-Section, PSR 5179 (L), Clemente (R)

200000072

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Seminis Vegetable Seeds, Inc.	PSR 5179	Siskiyou
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	**5. TELEPHONE** *(Include area code)*	**6. FAX** *(Include area code)*
2700 Camino del Sol Oxnard, CA 93030-7967	(805) 647-1572	(805) 918-2545
	7. PVPO NUMBER 200000072	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** ☑ **YES** ☐ **NO**

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** ☑ **YES** ☐ **NO**

10. Is the applicant the original owner? ☑ **YES** ☐ **NO** **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☐ **YES** ☐ **NO** **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ **YES** ☐ **NO** **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

The variety named in this application was developed by the Seminis Vegetable Seeds, Inc., employee (breeder) named below. Unless otherwise stated, all rights to the varieties developed by Seminis Vegetable Seeds, Inc. are assigned to the Company by agreement or by operation of law. No rights to such invention, discovery or development are retained by the employee(s).

Employee (Breeder): Bill Waycott

Site Location: Arroyo Grande, CA

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.